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CROSSBLADE RANGER

CPU	AMD Socket FM2+ Athlon™/A- Series Processors Supports CPU up to 4 cores Supports AMD® Turbo Core 3.0 Technology * Refer to www.asus.com for CPU support list
Chipset	AMD A88X (Bolton D4)
Memory	4 x DIMM, Max. 64GB, DDR3 2666(O.C.)/2400(O.C.)/2250(O.C.) /2200(O.C.)/2133/1866/1600/1333 MHz Non-ECC, Un-buffered Memory * Dual Channel Memory Architecture Support AMD Memory Profile (AMP) memory * The Max. 64GB memory capacity can be supported with DIMMs of 16GB (or above). ASUS will update QVL once the DIMMs are available on the market. * Hyper DIMM support is subject to the physical characteristics of individual CPUs. * Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).
Graphic	Integrated AMD Radeon™ R/HD8000/HD7000 Series Graphics in the A-Series APU Multi-VGA output support : HDMI/DVI-D/RGB ports - Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz / 1920 x 1200 @ 60 Hz* ¹ - Supports DVI-D with max. resolution 2560 x 1600 @ 60 Hz - Supports RGB with max. resolution 1920 x 1600 @ 60 Hz Maximum shared memory of 2048 MB AMD® Dual Graphics technology support
Multi-GPU Support	Supports AMD 3-Way CrossFireX™ Technology
Expansion Slots	2 x PCIe 3.0/2.0 x16 (Single at x16, dual at x8/x8, red) * ²

	<p>1 x PCIe 2.0 x16 (max at x4 mode, black)</p> <p>2 x PCIe 2.0 x1</p> <p>2 x PCI</p>
Storage	<p>AMD A88X FCH(Bolton D4) chipset :</p> <p>8 x SATA 6Gb/s port(s),</p> <p>Support Raid 0, 1, 5, 10, JBOD</p>
LAN	<p>Intel® I211-AT, 1 x Gigabit LAN Controller(s)</p>
Audio	<p>ROG SupremeFX 8-Channel High Definition Audio CODEC</p> <ul style="list-style-type: none"> - Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking - SupremeFX Shielding Technology - ELNA® premium audio capacitors <p>Audio Feature :</p> <ul style="list-style-type: none"> - DTS Connect - Optical S/PDIF out port(s) at back panel - Sonic SoundStage - Sonic SenseAmp - Sonic Studio - Sonic Radar II
USB Ports	<p>ASMedia® USB 3.0 controller :</p> <p>2 x USB 3.0 port(s) (2 at back panel, blue)</p> <p>AMD A88X FCH(Bolton D4) chipset :</p> <p>4 x USB 3.0 port(s) (2 at back panel, blue, 2 at mid-board)</p> <p>AMD A88X FCH(Bolton D4) chipset :</p> <p>8 x USB 2.0 port(s) (2 at back panel, , 6 at mid-board)</p>
ROG Exclusive Features	<p>Extreme Engine Digi+ III :</p> <ul style="list-style-type: none"> - Full Digital CPU/DRAM Power - NexFET™ Power Block MOSFET - New Alloy Chokes - 10K Black Metallic Capacitors <p>ROG Extreme OC kit :</p> <ul style="list-style-type: none"> - Slow Mode - LN2 Mode <p>Probelt</p> <p>KeyBot</p> <ul style="list-style-type: none"> - CPU Level Up - XMP - Direct Key <p>UEFI BIOS features :</p>

- GPU.DIMM Post
- Tweakers' Paradise
- ROG SSD Secure Erase
- Graphic Card Information Preview

ROG RAMDisk**GameFirst III****Extreme Tweaker****USB BIOS Flashback**

Special Features **ASUS Dual Intelligent Processors 5-Way Optimization by Dual Intelligent Processors 5 :**

- The tuning key perfectly consolidates ASUS-exclusive DIGI+ Power Control, TPU, EPU, and Fan Xpert 3 optimize the digital power setting, system performance, power saving and whole system cooling configuration

ASUS Exclusive Features :

- MemOK!
- AI Suite 3
- Ai Charger+
- USB Charger+
- USB 3.0 Boost
- Disk Unlocker

Interactive HomeCloud

- Media Streamer

ASUS Quiet Thermal Solution :

- Stylish Fanless Design Heat-sink solution & MOS Heatsink
- ASUS Fan Xpert 3

ASUS EZ DIY :

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 2
- ASUS UEFI BIOS EZ Mode
- Push Notice

ASUS Q-Design :

- ASUS Q-Shield
- ASUS Q-Code
- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
- ASUS Q-Slot
- ASUS Q-DIMM
- ASUS Q-Connector

Operating System Support

Windows® 8.1
Windows® 8
Windows® 7

Back I/O Ports

1 x PS/2 keyboard/mouse combo port(s)
1 x DVI-D

	<ul style="list-style-type: none"> 1 x D-Sub 1 x HDMI 1 x LAN (RJ45) port(s) 4 x USB 3.0 (blue) 2 x USB 2.0 1 x Optical S/PDIF out 6 x Audio jack(s) 1 x USB BIOS Flashback Button(s)
Internal I/O Ports	<ul style="list-style-type: none"> 1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s) 3 x USB 2.0 connector(s) support(s) additional 6 USB 2.0 port(s) 1 x TPM header 8 x SATA 6Gb/s connector(s) 1 x CPU Fan connector(s) (1 x 4 -pin) 1 x CPU OPT Fan connector(s) (1 x 4 -pin) 3 x Chassis Fan connector(s) (3 x 4 -pin) 1 x 24-pin EATX Power connector(s) 1 x 8-pin ATX 12V Power connector(s) 1 x Front panel audio connector(s) (AAFP) 1 x System panel(s) 1 x DRCT header(s) 1 x MemOK! button(s) 1 x Slow Mode switch(es) 7 x ProbelT Measurement Points 1 x Power-on button(s) 1 x Reset button(s) 1 x Clear CMOS button(s) 1 x LN2 Mode jumper(s) 1 x ROG extension (ROG_EXT) header(s) 1 x KeyBot Button 1 x Sonic SoundStage Button
Accessories	<ul style="list-style-type: none"> User's manual I/O Shield 4 x SATA 6Gb/s cable(s) 1 x Q-connector(s) (2 in 1) 1 x 12 in 1 ROG Cable Label(s) 1 x ROG Door Hanger(s) 1 x ROG Mouse Mat
BIOS	64Mb UEFI AMI BIOS, PnP, DMI2.7, WfM2.0, SM BIOS 2.7, ACPI5.0a, Multi-Language BIOS
Manageability	WfM 2.0, DMI 2.7, WOL by PME, PXE
Support Disc	Drivers

	<p>ROG GameFirst III</p> <p>ROG RAMDisk</p> <p>ROG CPU-Z</p> <p>Kaspersky® Anti-Virus</p> <p>DAEMON Tools Pro Standard</p> <p>ASUS WebStorage</p> <p>HomeCloud</p> <p>ASUS Utilities</p>
Operating System	<p>Windows® 8.1 32/64-bit</p> <p>Windows® 8 32/64-bit</p> <p>Windows® 7 32/64-bit</p>
Form Factor	<p>ATX Form Factor</p> <p>12 inch x 9.6 inch (30.5 cm x 24.4 cm)</p>
Management Solution	<p>WfM 2.0, DMI 2.7, WOL by PME, PXE</p>
Note	<p>1: Only FM2+ APU can support up to 4096 x 2160 resolution display via HDMI port.</p> <p>2: Only FM2+ processors can support PCIe 3.0.</p> <p>3: 1 x USB 2.0 connectors support additional 2 USB 2.0 ports(2 ports share with ROG_EXT header).</p>

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